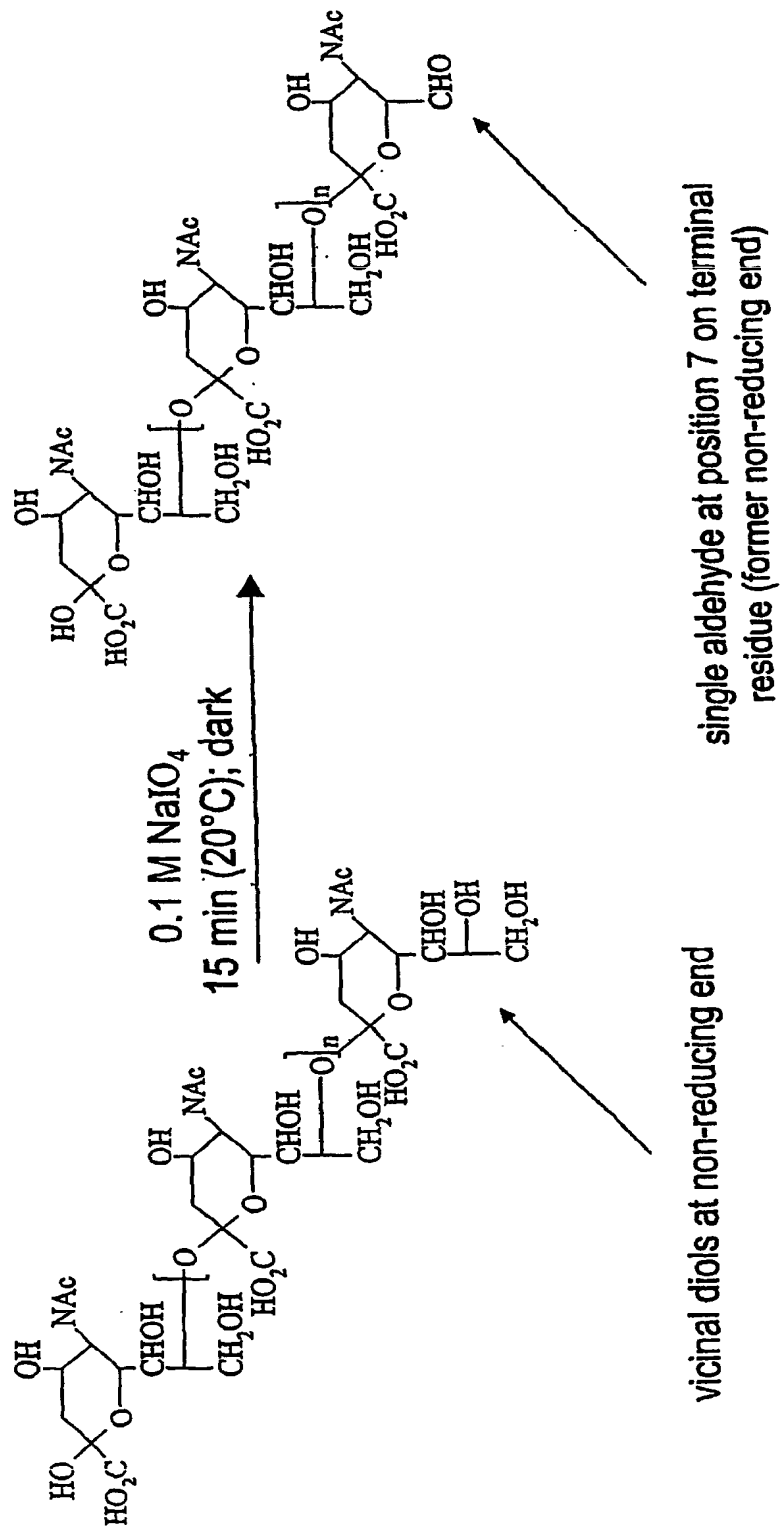


**Figure 1a**



**Figure 1b**

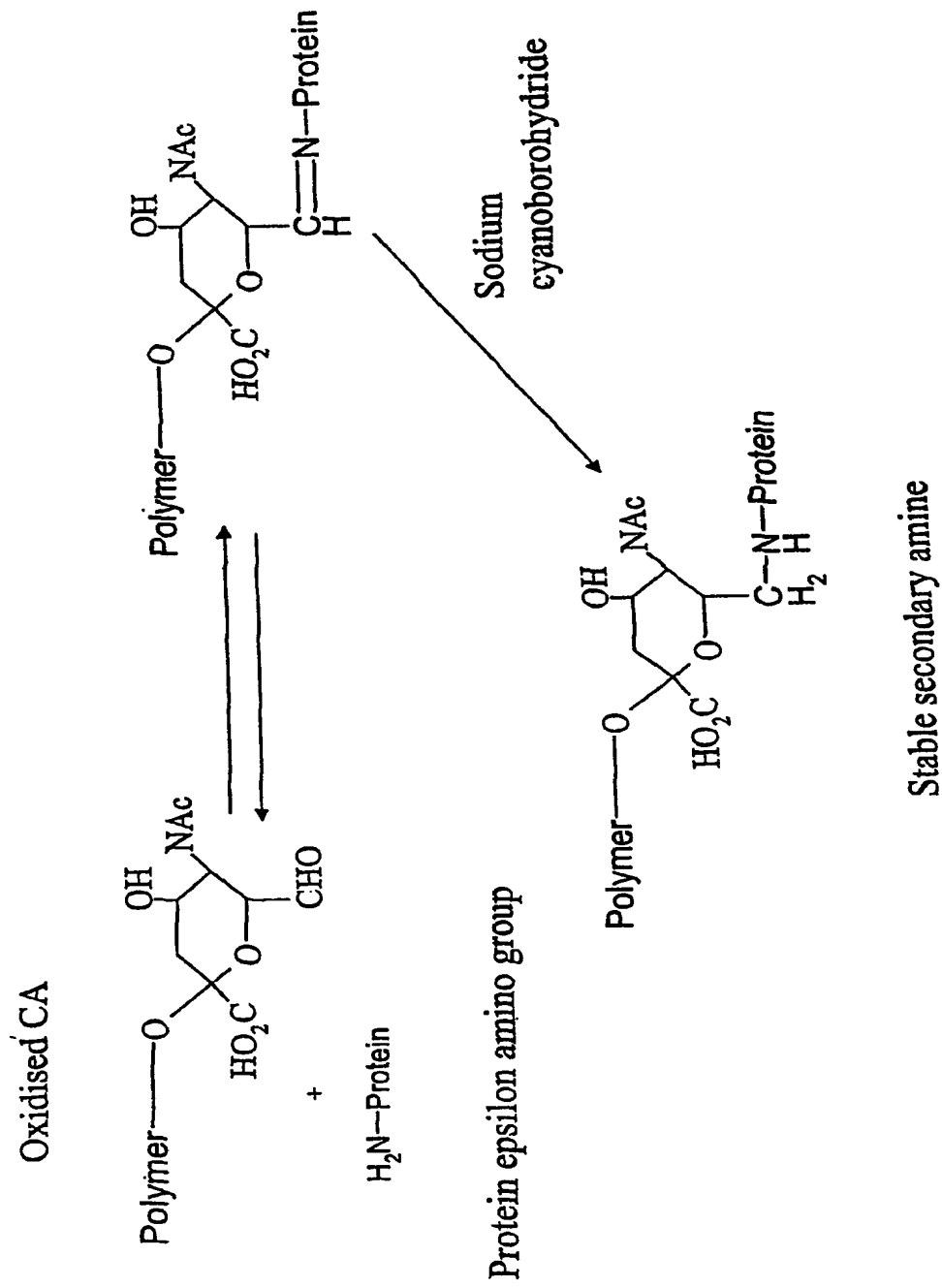
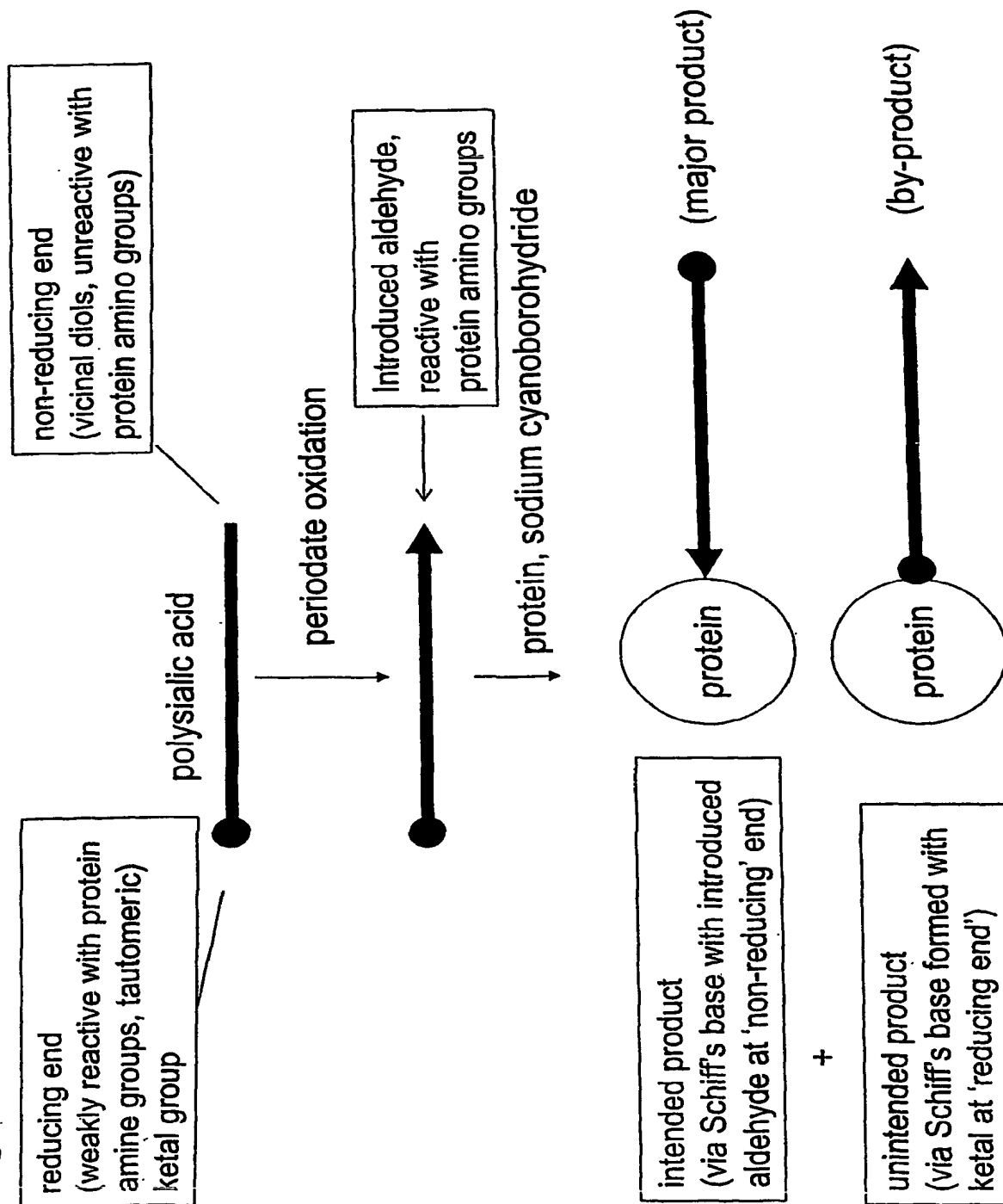


Figure 2a



**Figure 2b**

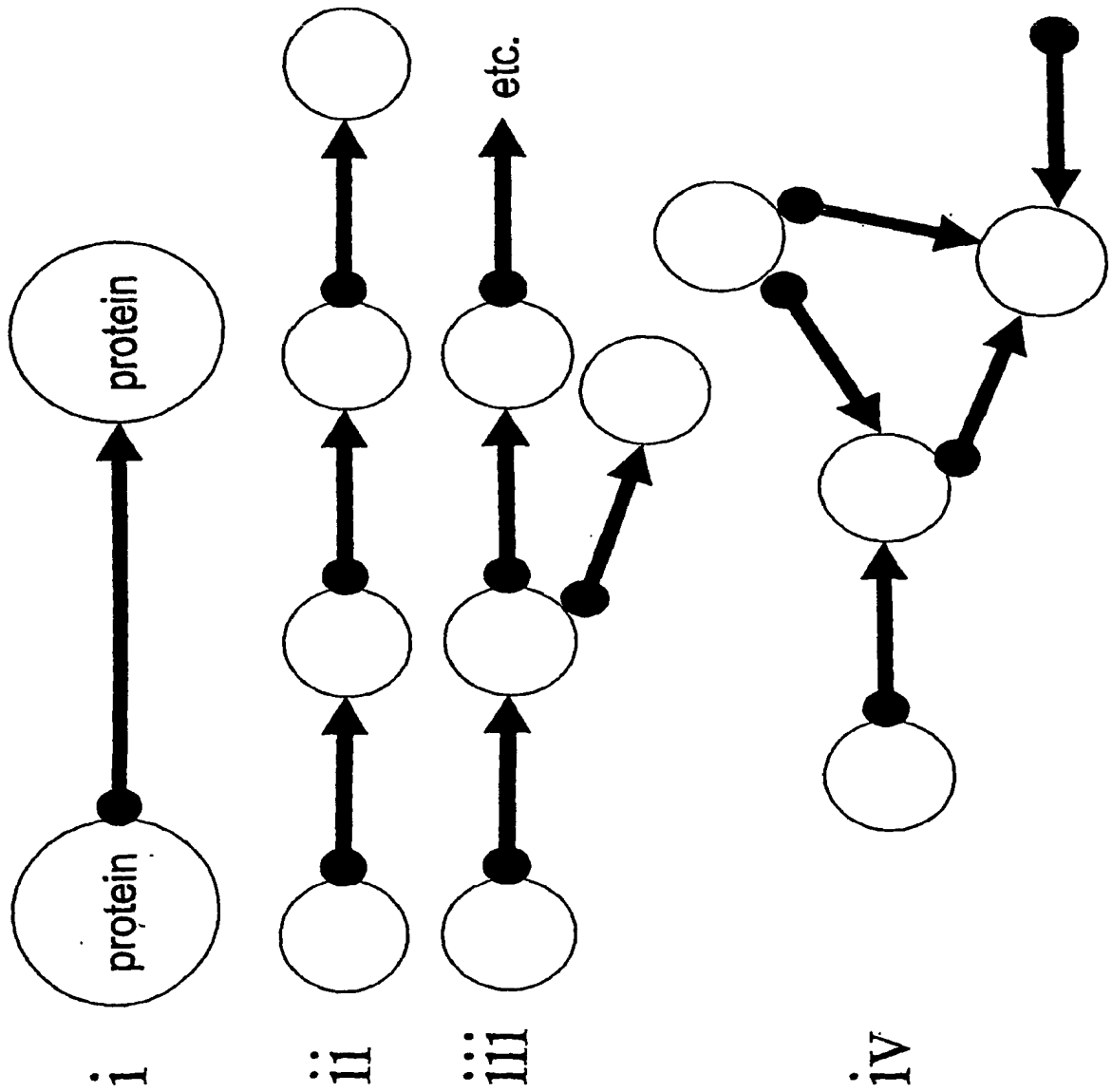


Figure 3

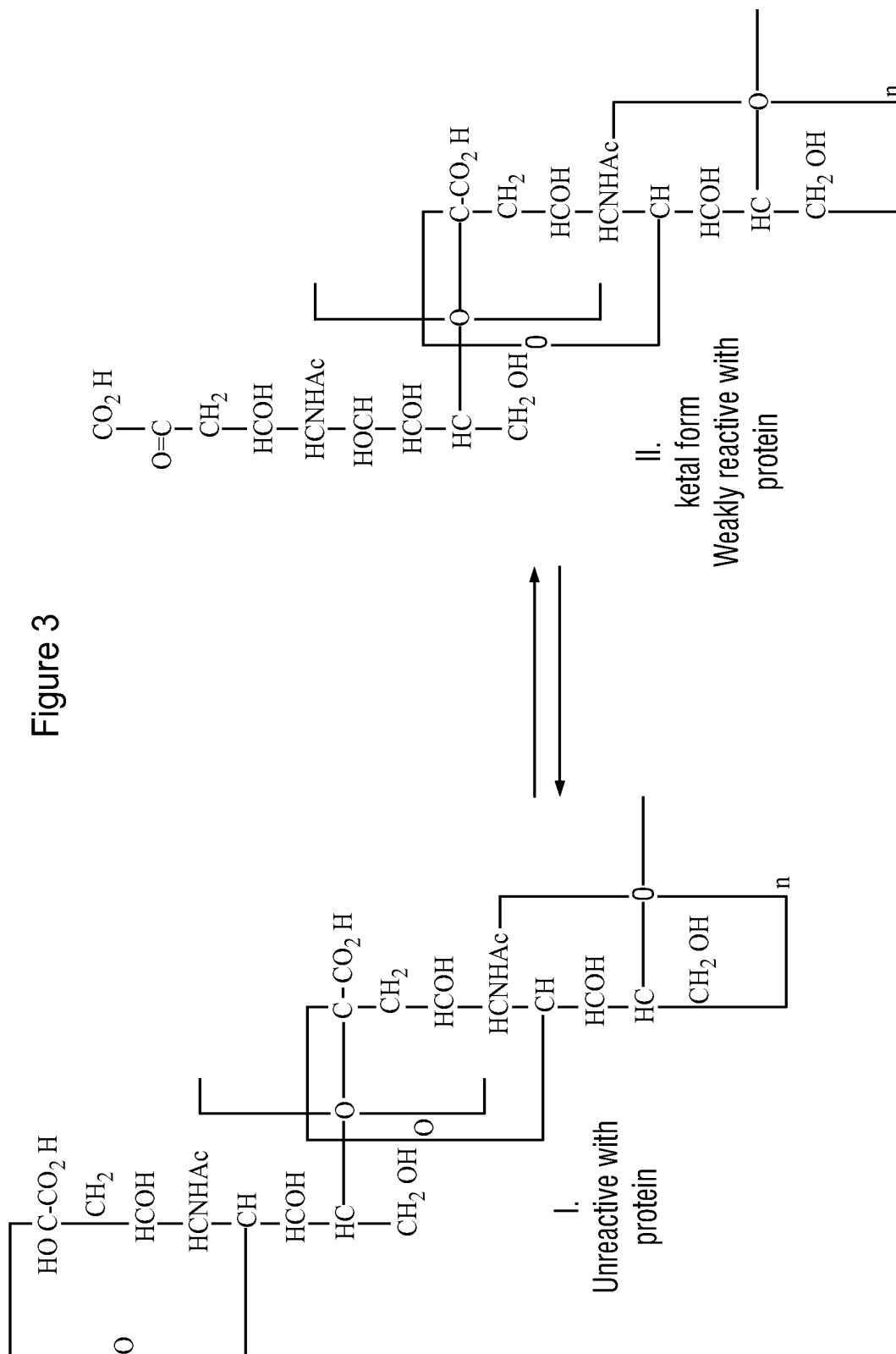


Figure 4A

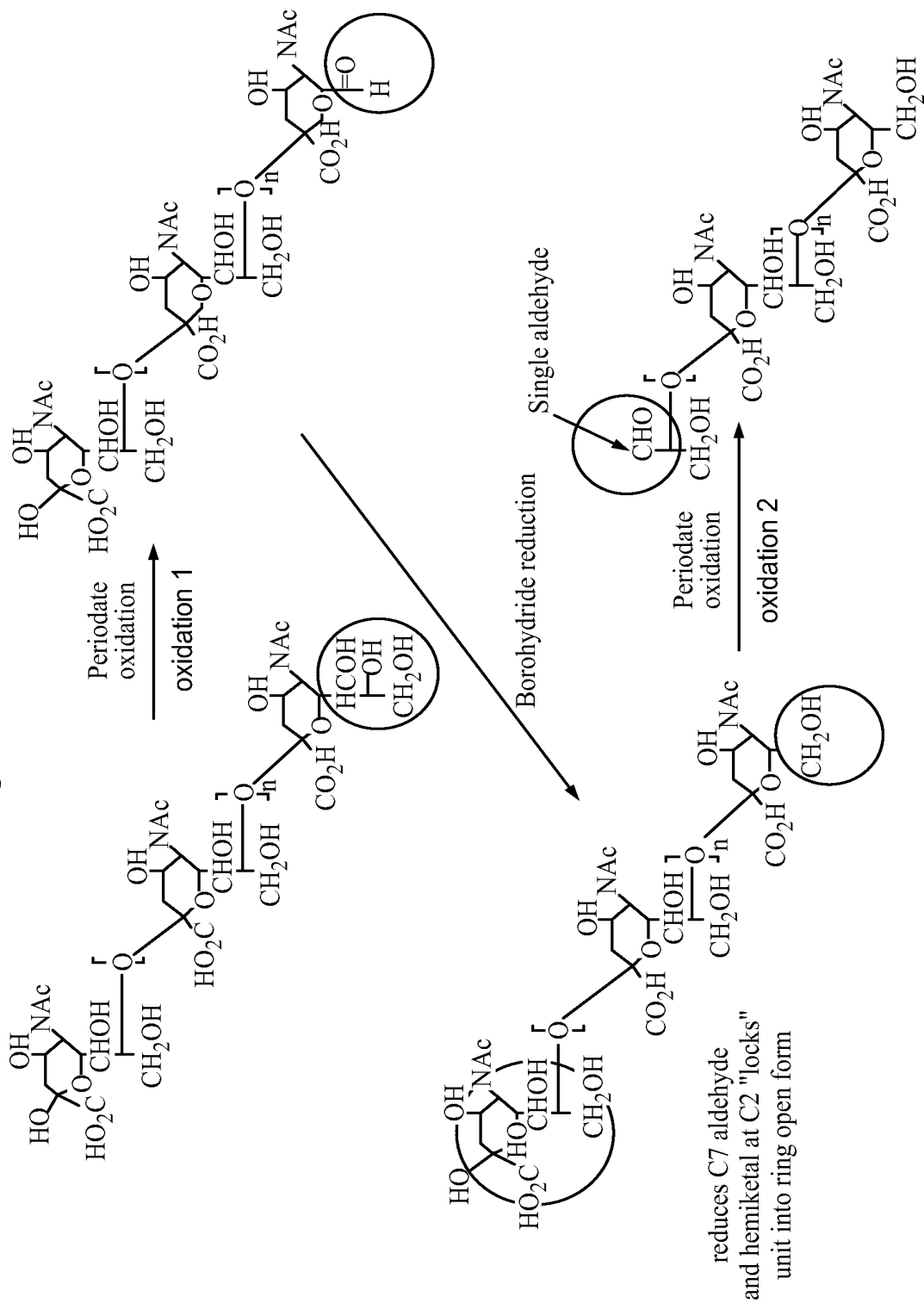


Figure 4b

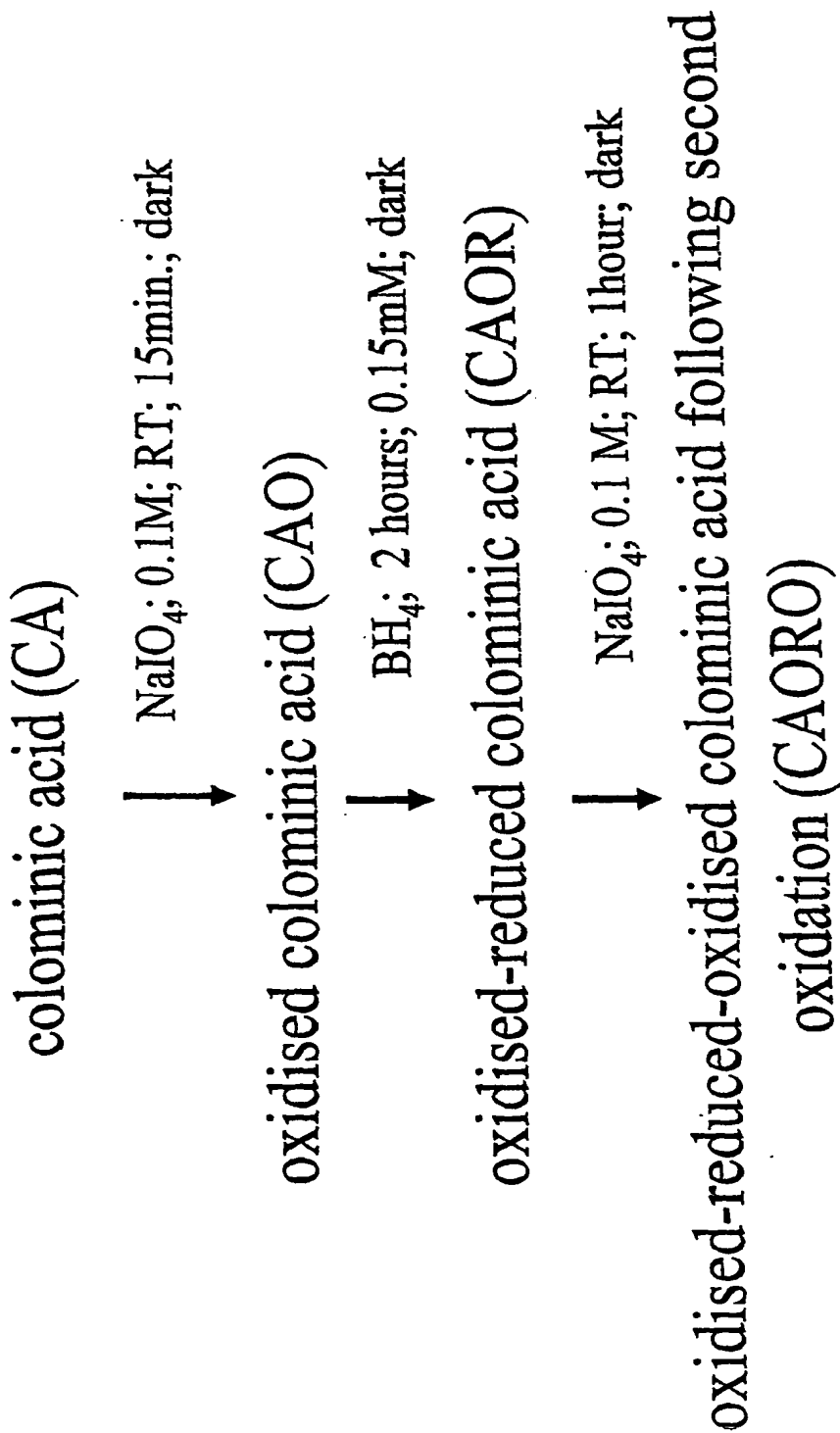
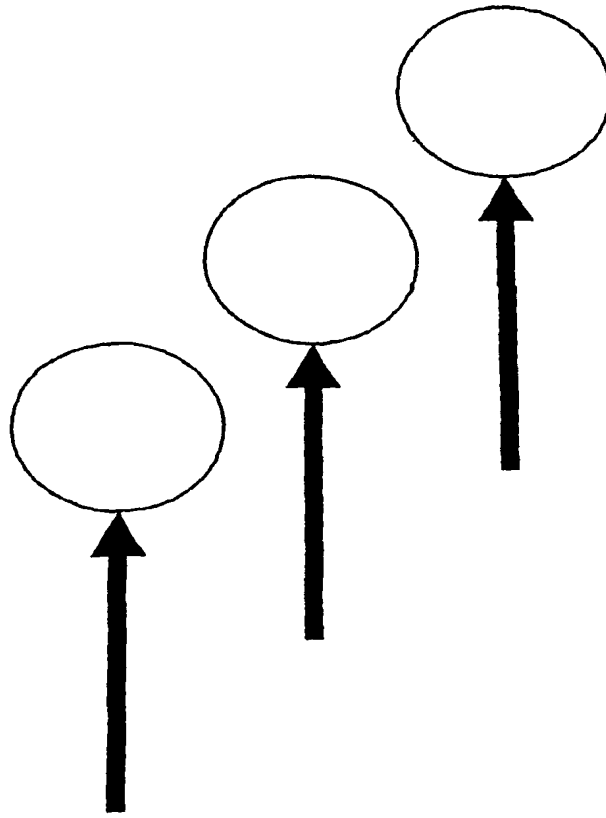
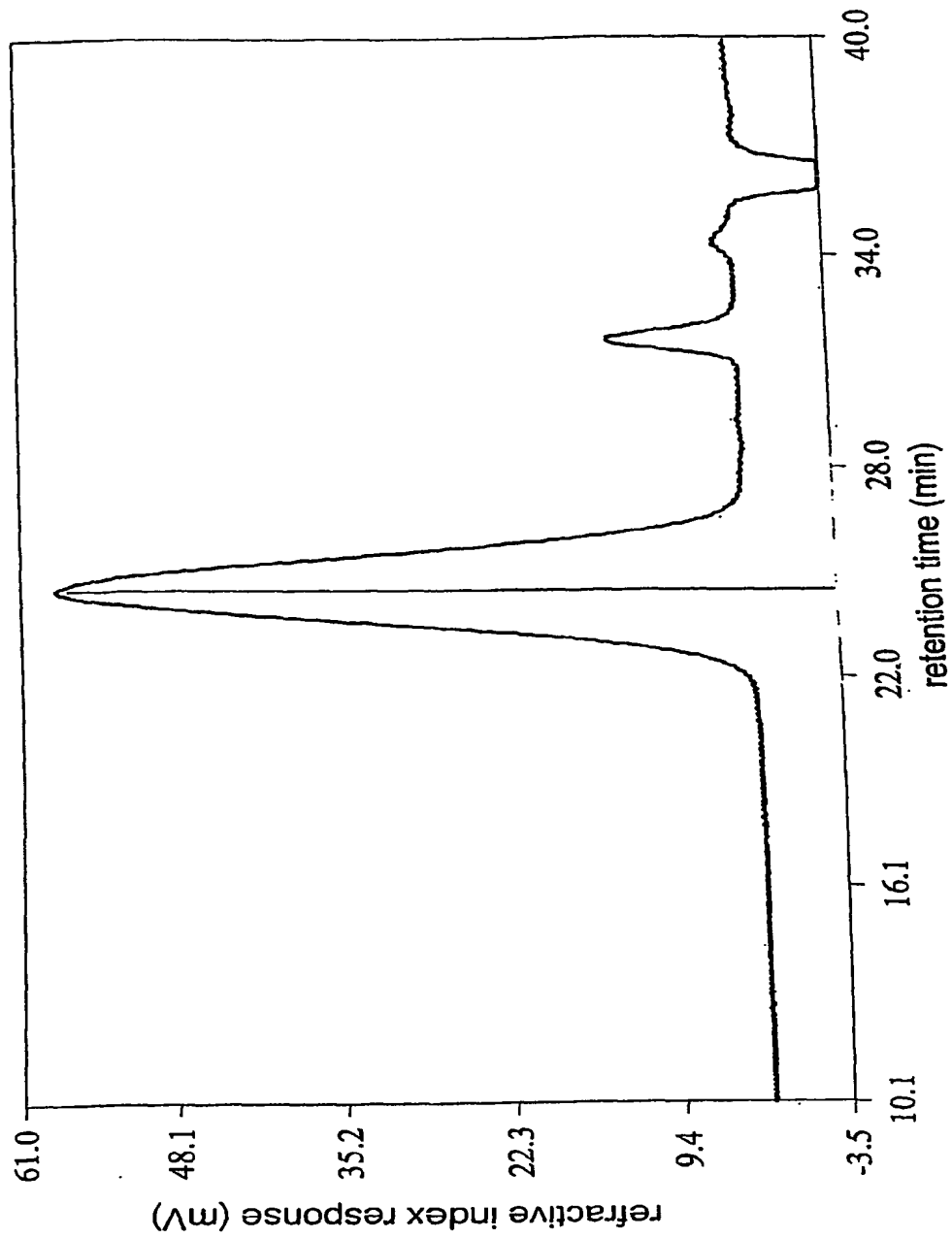


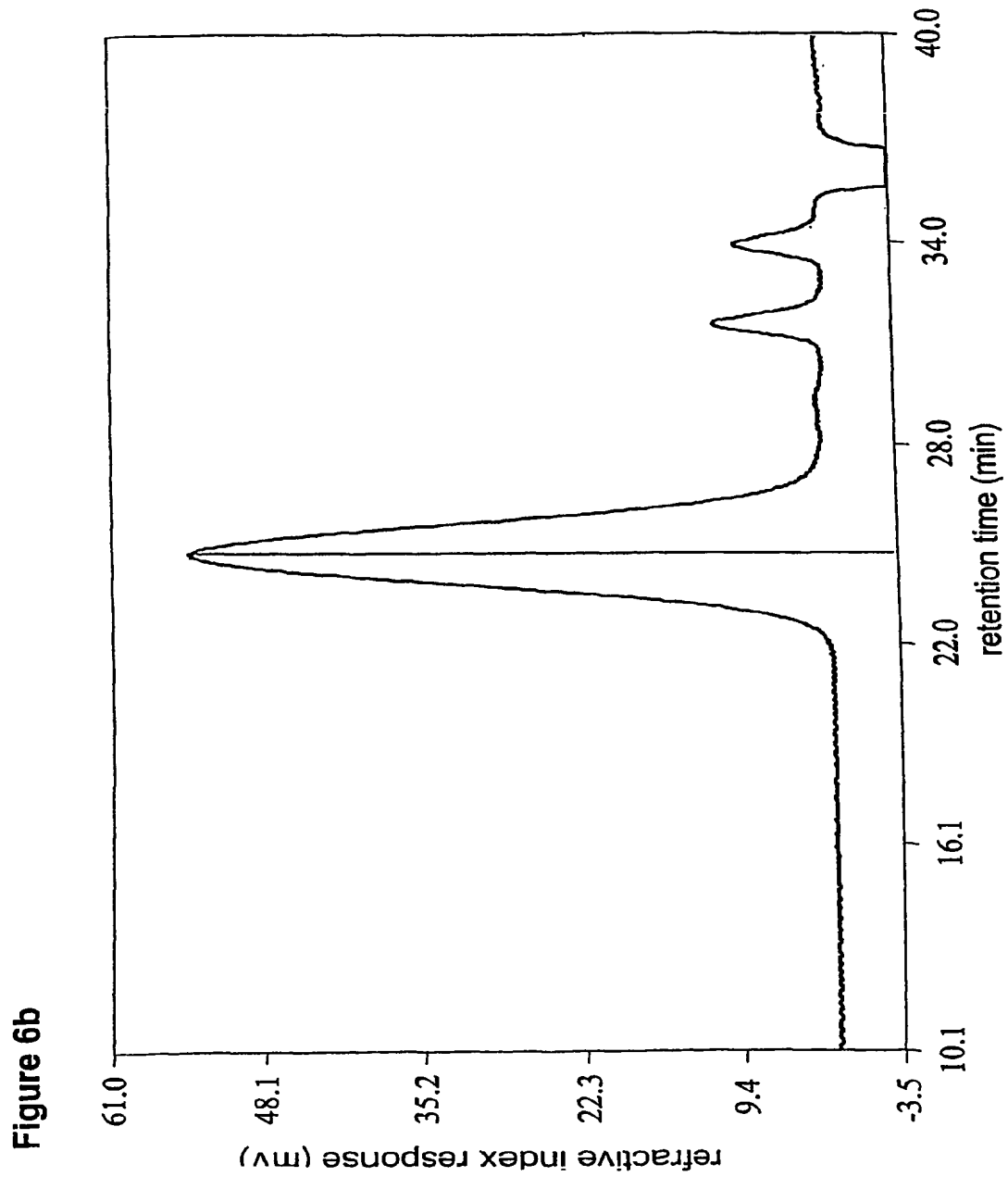
Figure 5



Monofunctional polysialic acid cannot form unintended by-products described for periodate-oxidised natural polysialic acid in Fig. 1

**Figure 6a**





**Figure 6c**

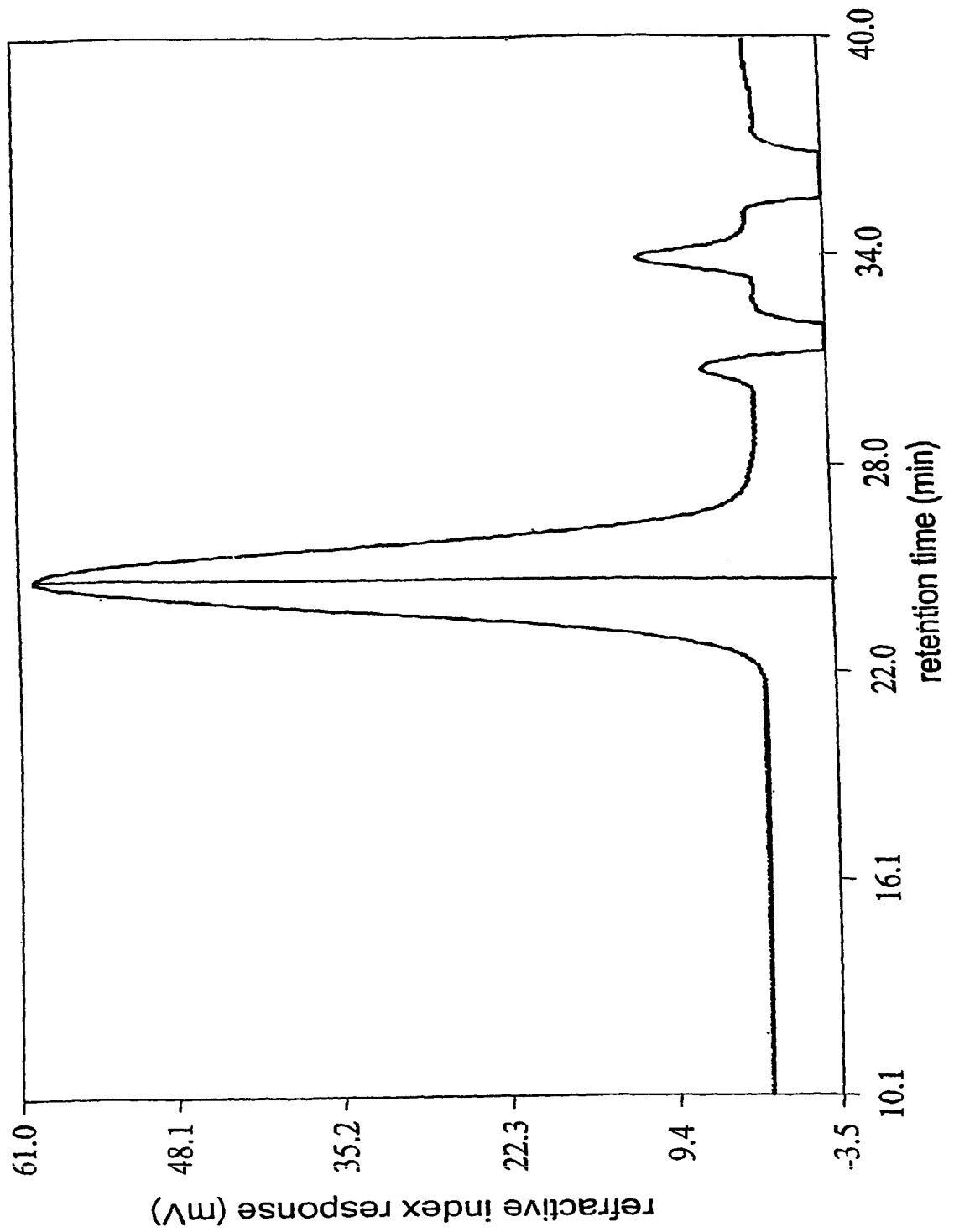


Figure 6d

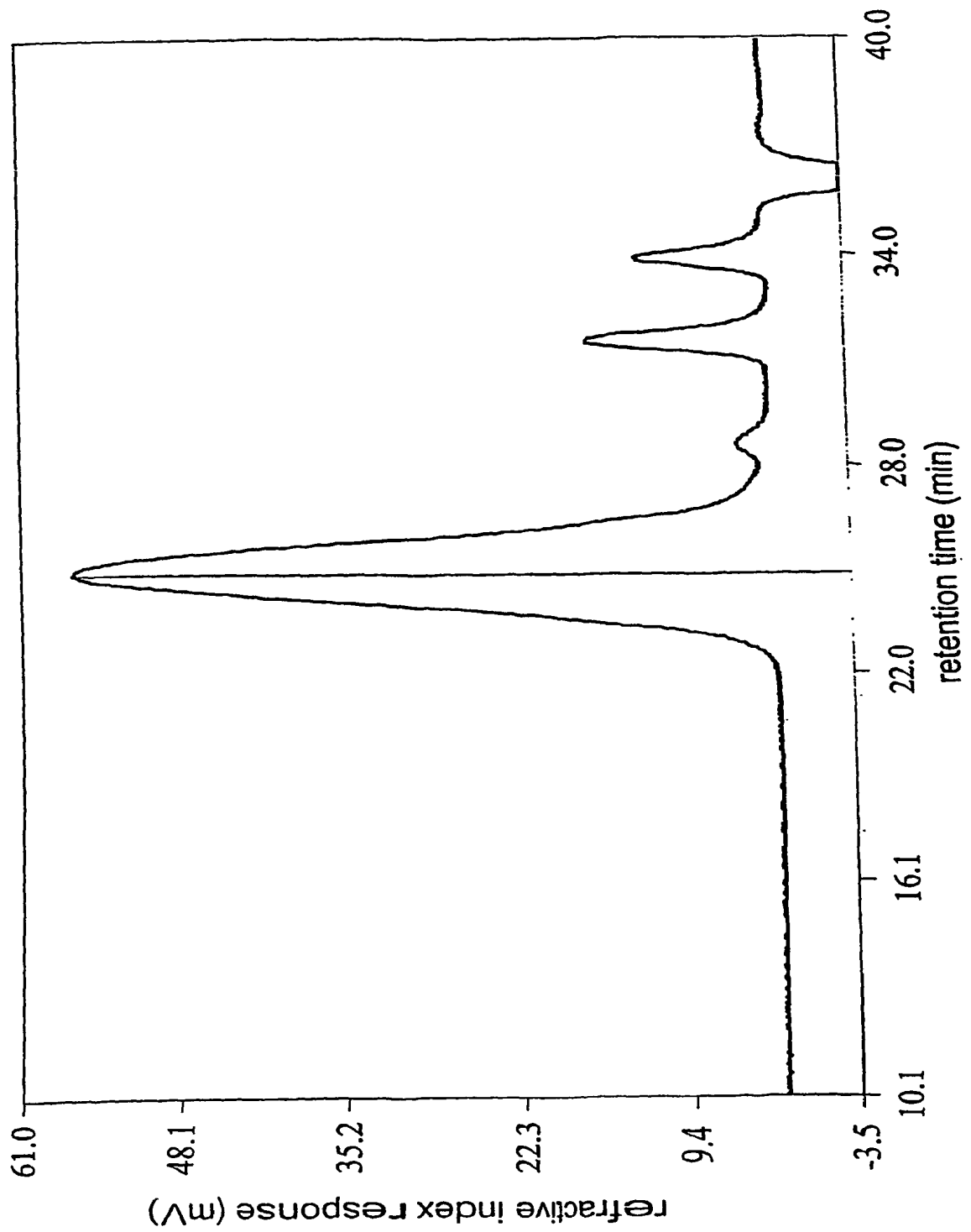


Figure 7

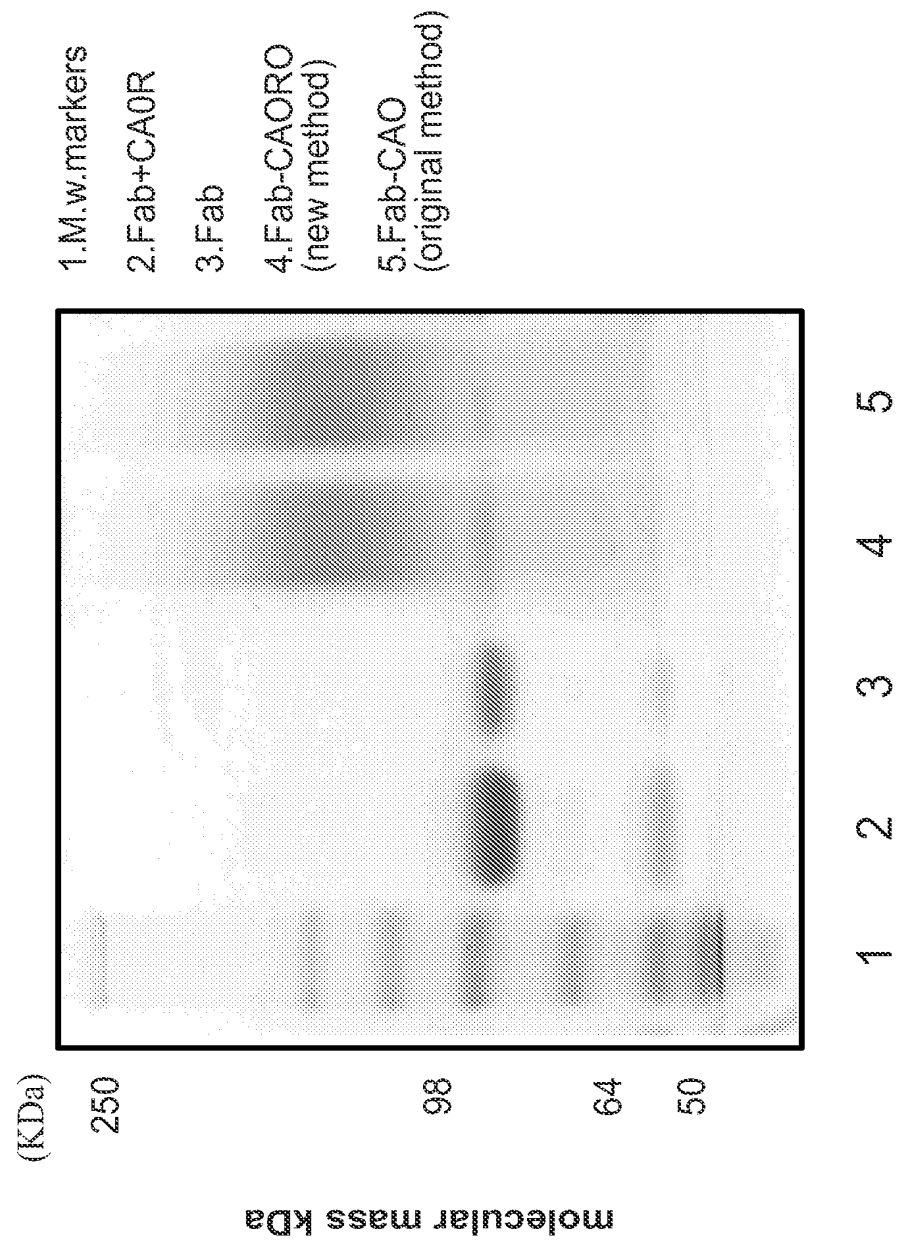


Figure 8

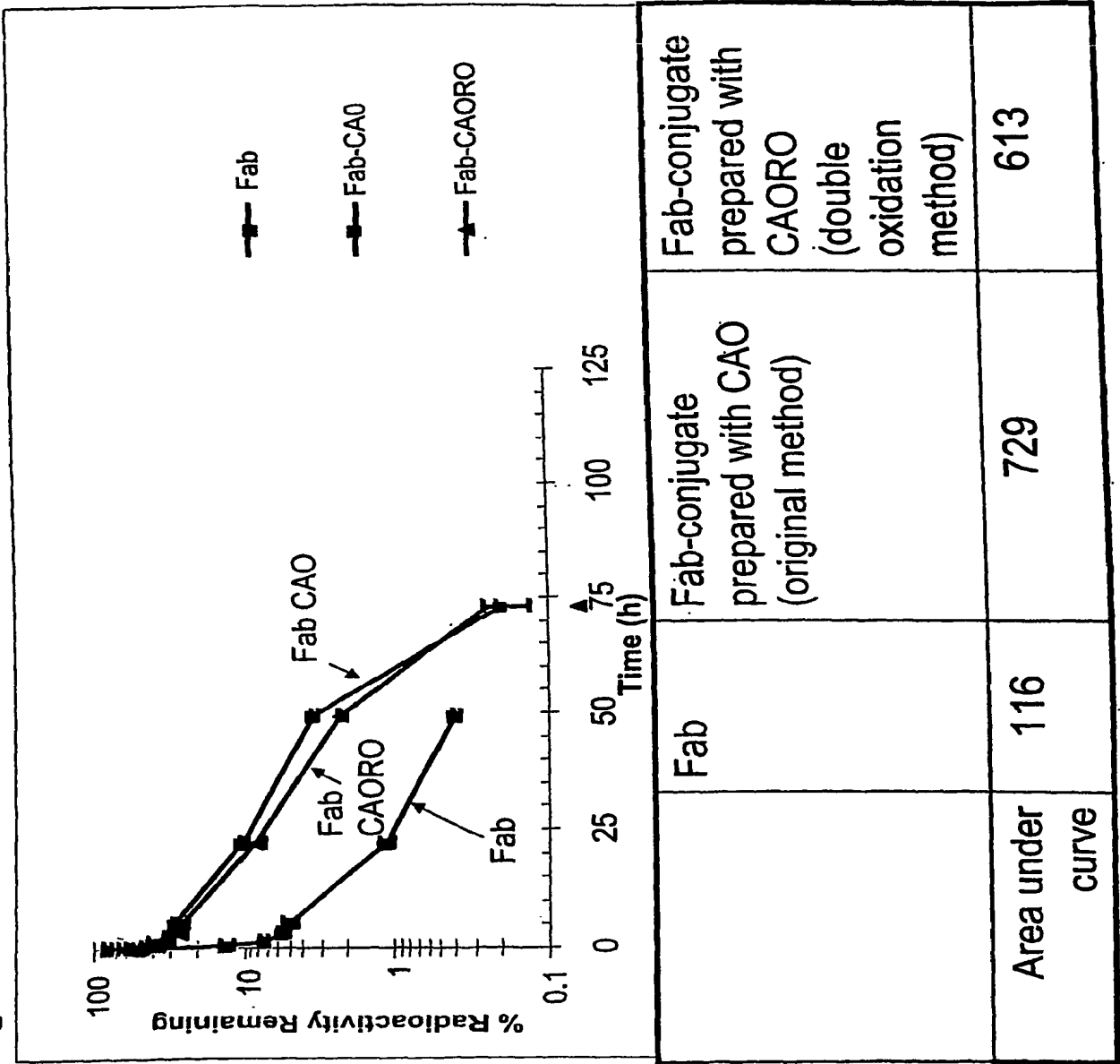


Figure 9

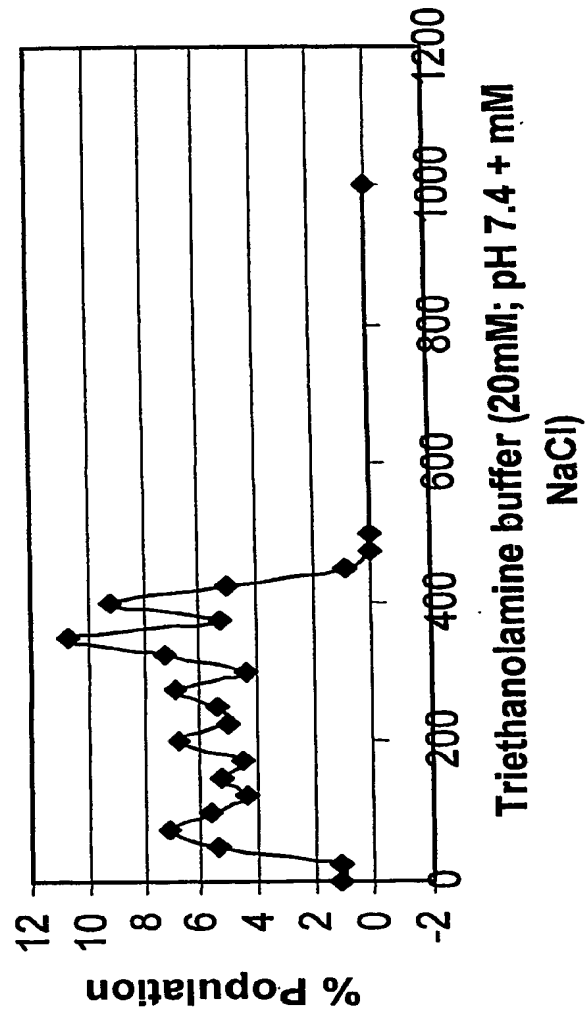


Figure 10: A Typical Native Page of Colominic Acid Fractions with M.W.  
 (B = broad dispersed; N=narrow dispersed)

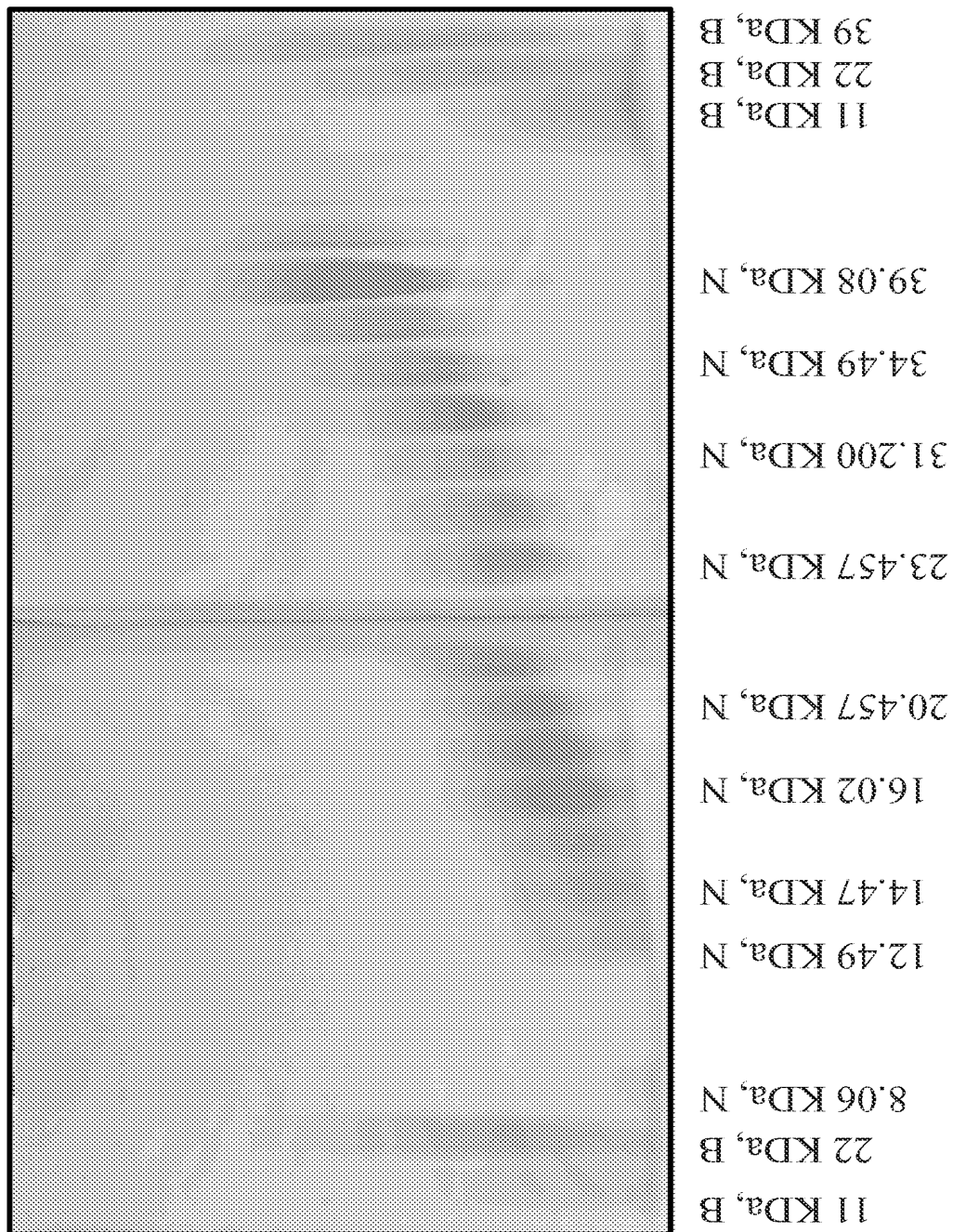


Figure 11

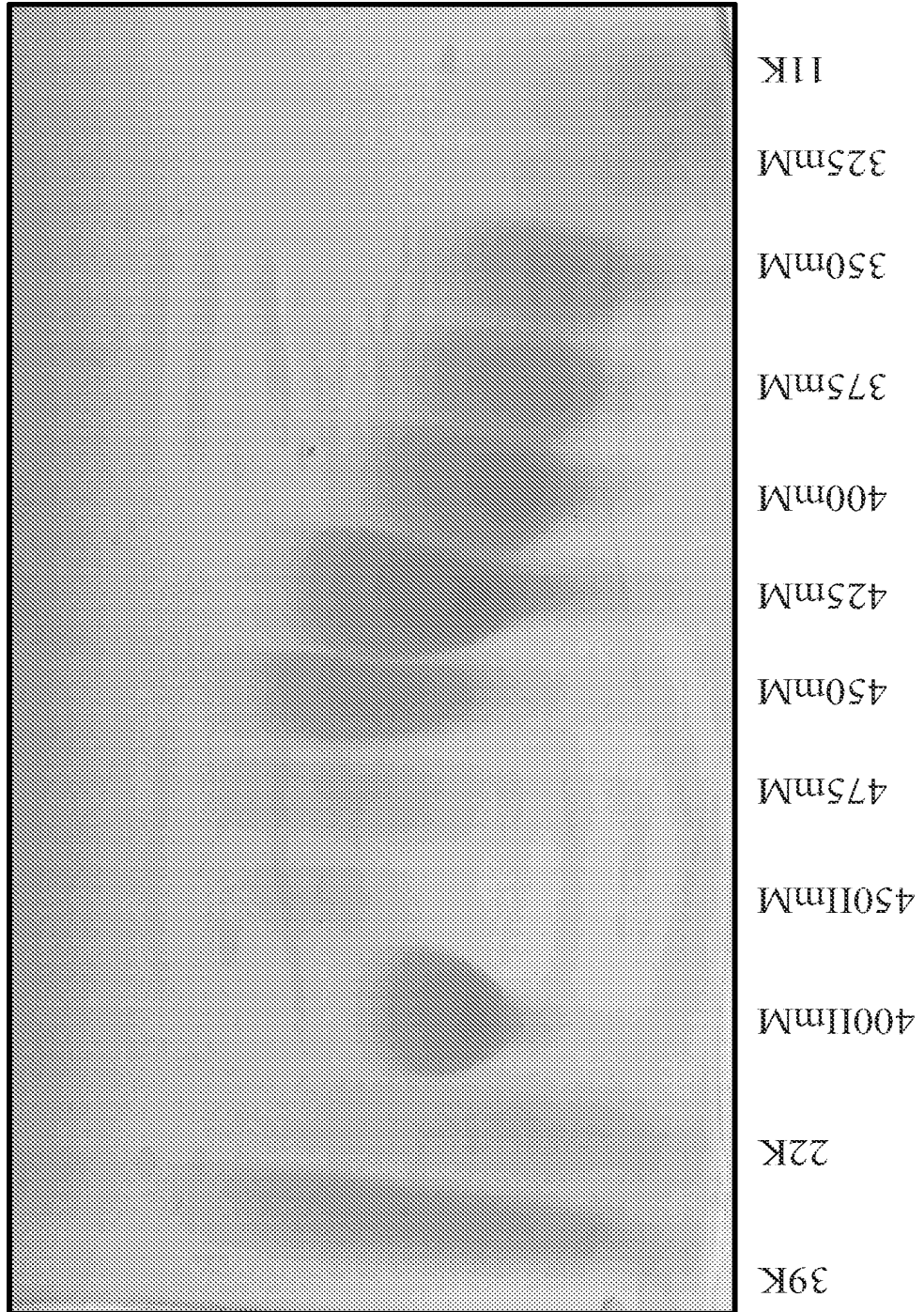


Figure 12: A Typical GPC Chromatogram for CA Fractions

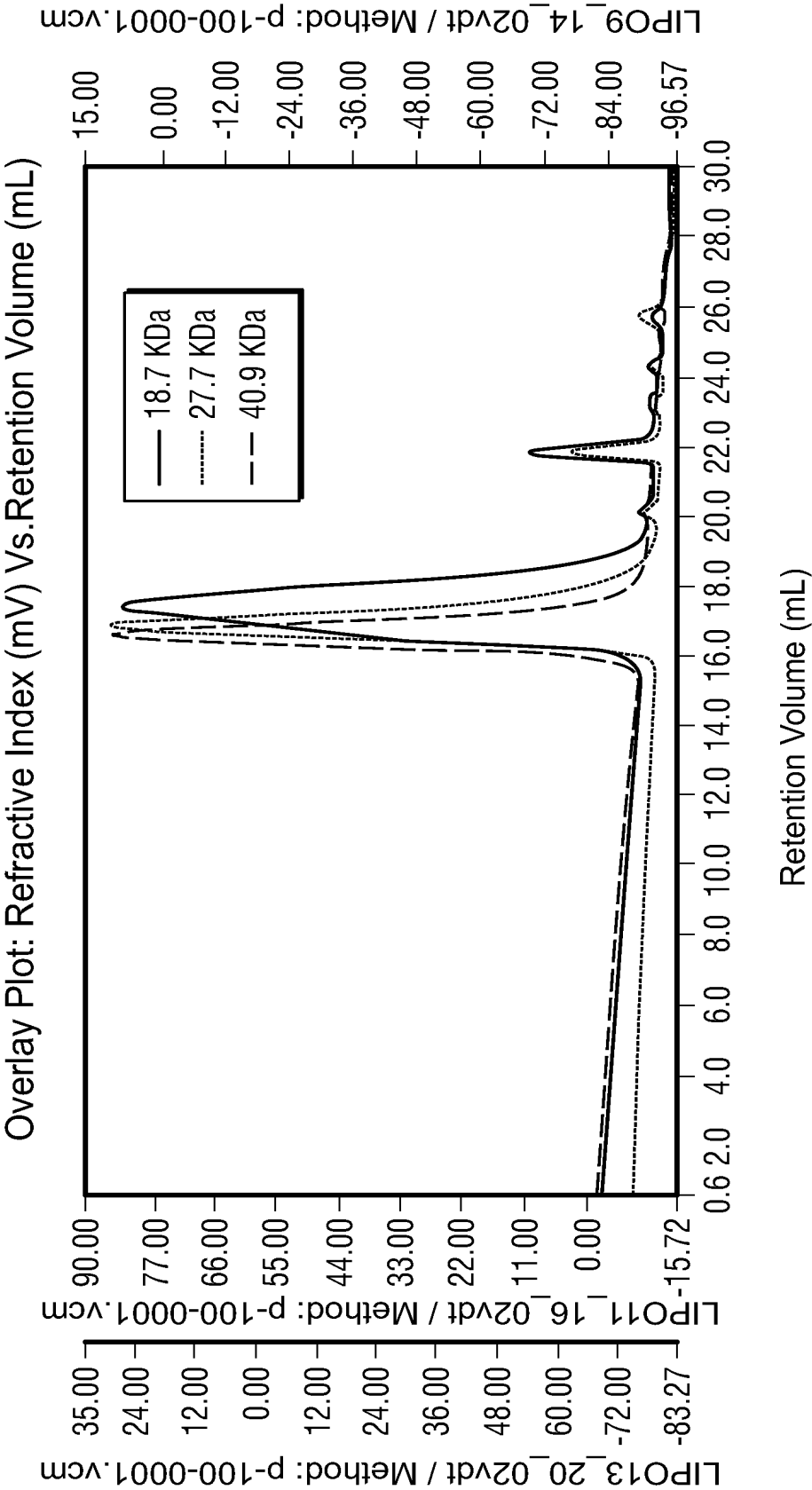


Figure 12

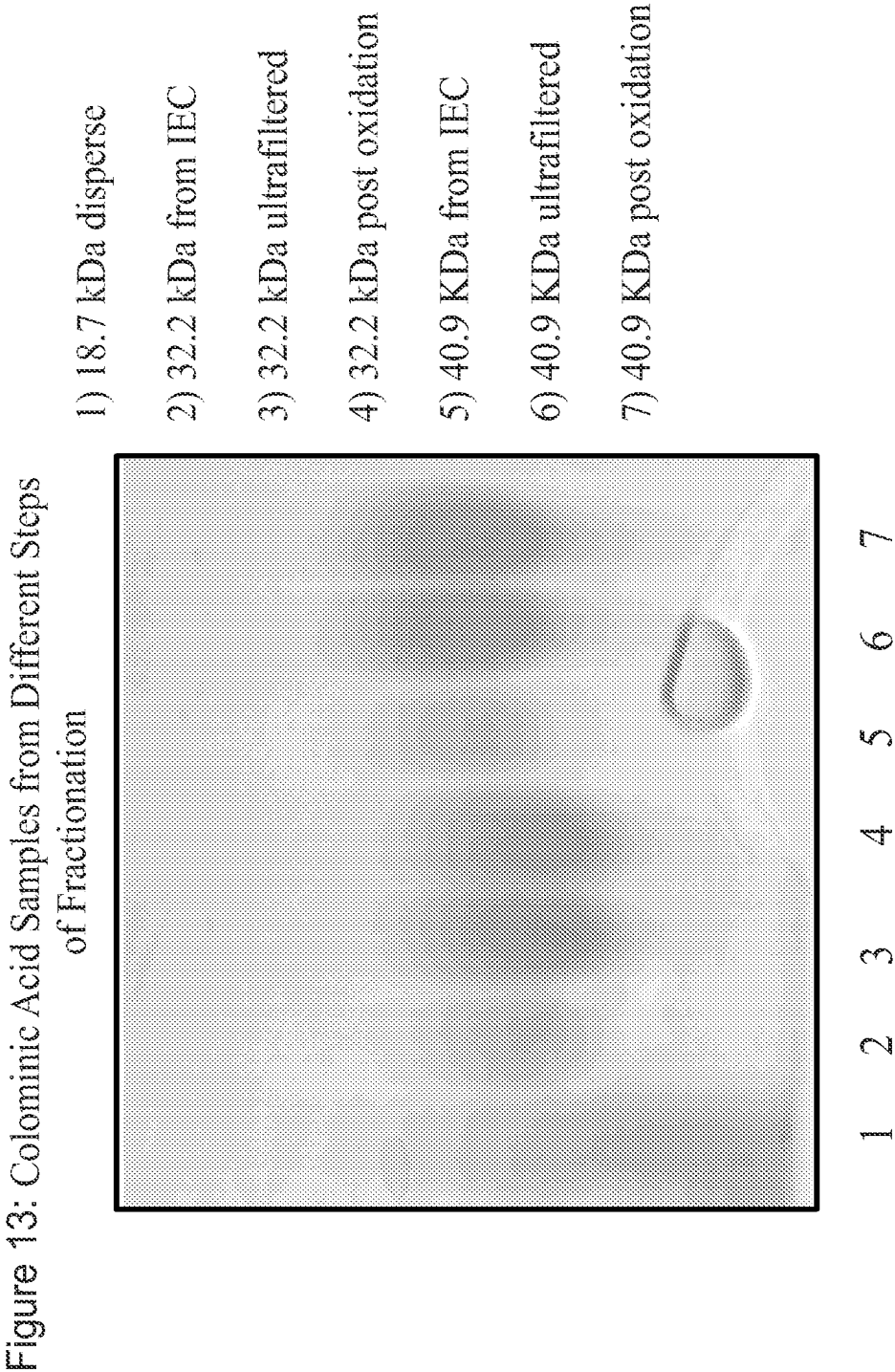


Figure 14: Fractionation by ultrafiltration

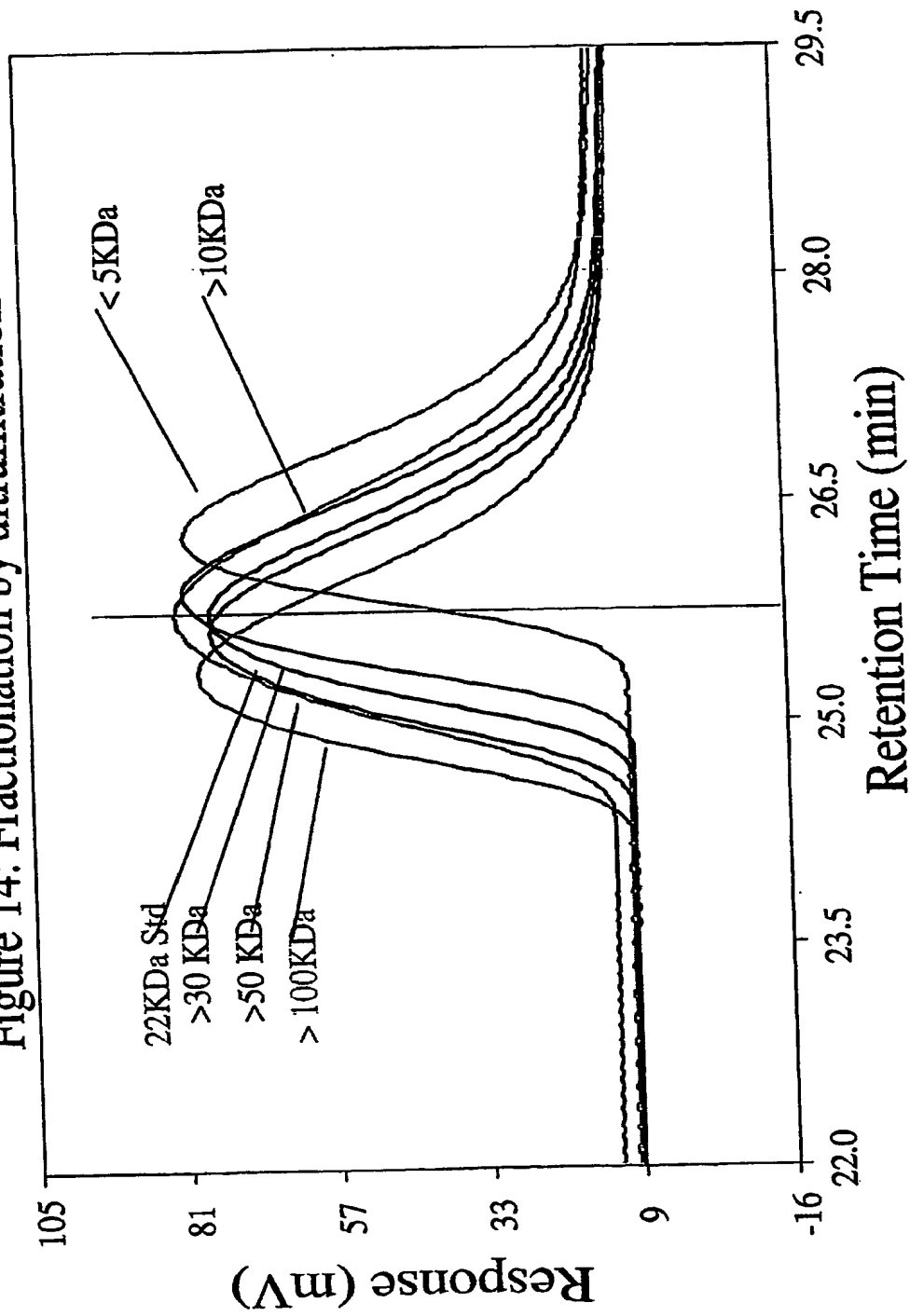


Figure 15

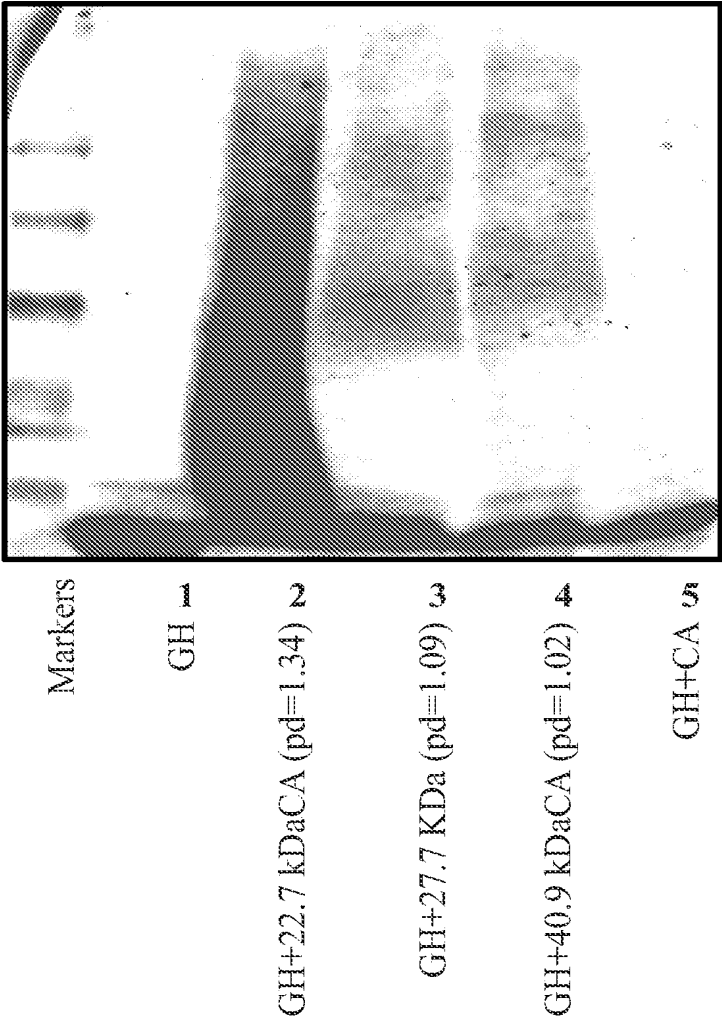


Figure 16

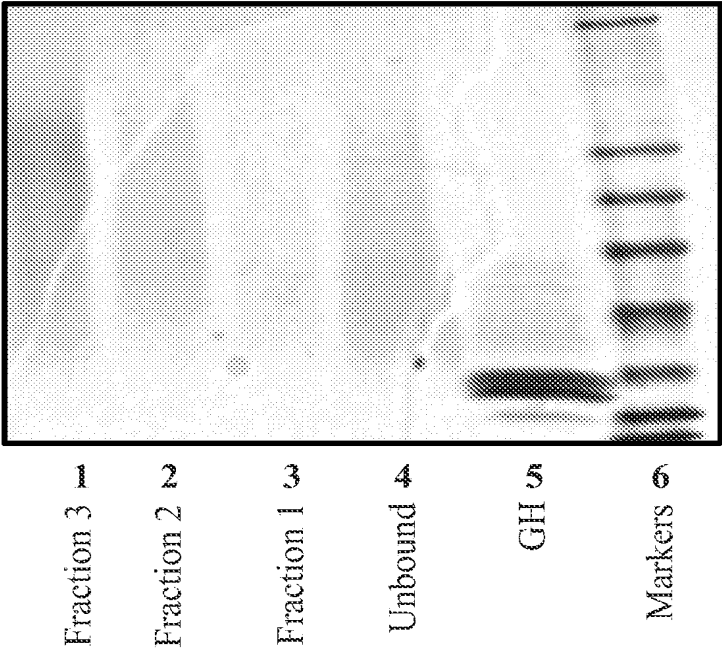


Figure 17

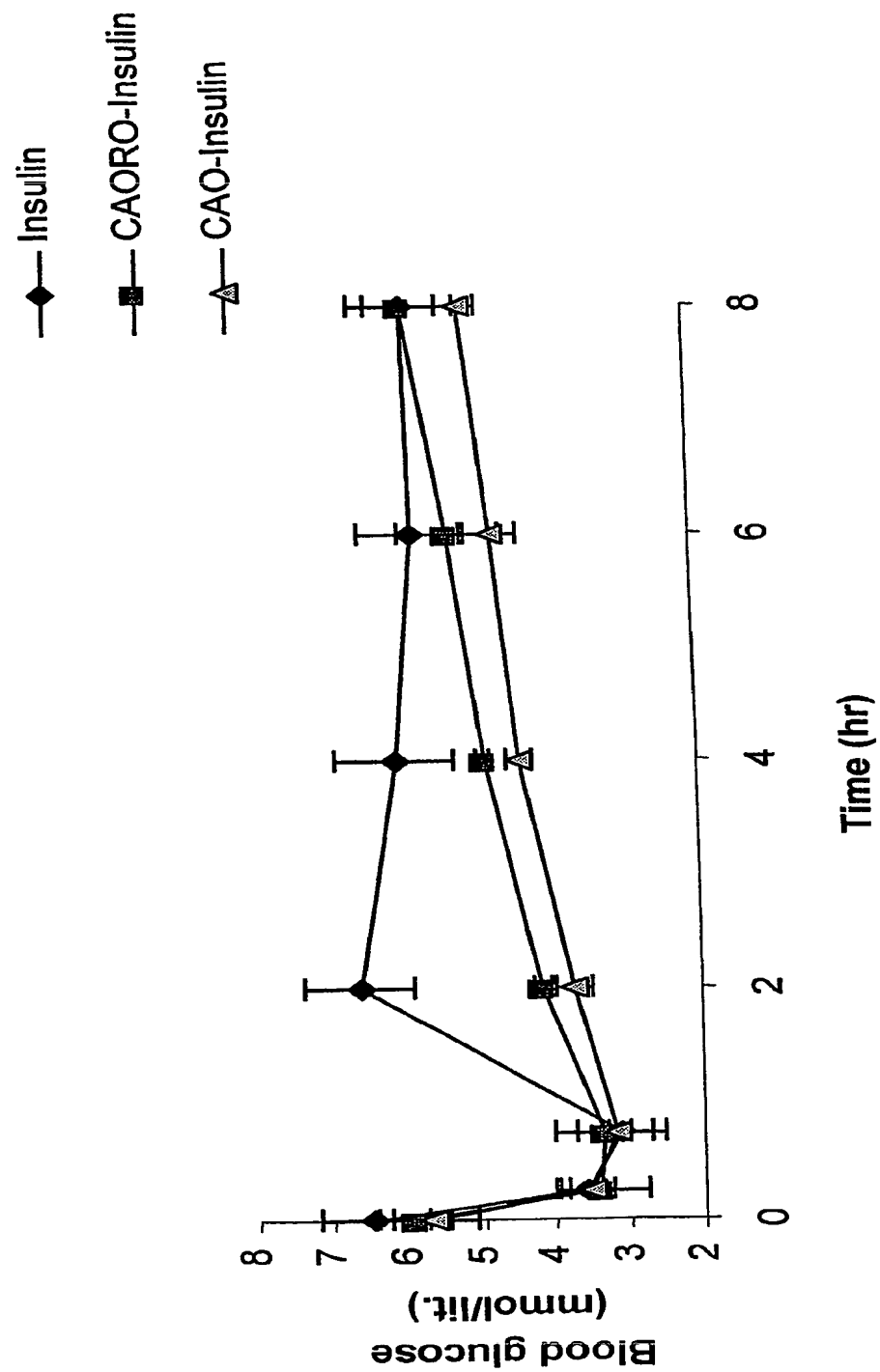


Figure 18  
**Table 6: Ion exchange chromatography of CA22.7: Scale up (900 matrix)**

Sample (in 20mM Triethanolmine buffer+mM NaCl, pH7.4)	M.W. (Pd) 12.5 g batch	M.W. (Pd) 25 g batch
350 mM	15490 (1.008)	10.470 (1.173)
375 mM	19960 (1.010 )	24659 (1.019)
400 mM	25829 (1.019)	29573 (1.018)
425 mM	33763 (1.023)	34160 (1.011)
450 mM	46880 (1.058)	44400 (1.013)
475 mM		28500 (1.376)